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Estimation of localization of point sources from a printed circuit board in the near field

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Abstract

© Published under licence by IOP Publishing Ltd. This article describes algorithms for localizing sources of electromagnetic radiation from a printed circuit board in the near field. The sources of radiation are represented in the form of a set of the simplest oscillators - Hertz dipoles. Comparison of the two methods of localization of radiation sources is carried out using the Tikhonov regularization and the LASSO regression. The model examples show that the application of LASSO regression gives better results.

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